

Title (en)

Fully automated pallet warehouse.

Title (de)

Vollautomatische Paletten-Lagereinrichtung.

Title (fr)

Dispositif de stockage automatisé pour palettes.

Publication

**EP 0671348 A3 19970129 (DE)**

Application

**EP 95710004 A 19950207**

Priority

DE 4407999 A 19940310

Abstract (en)

[origin: EP0671348A2] Palettes (5) have guide elements (2) around pivoted rollers for arbitrary change of direction without using deflectors. The elements guide the rollers along rails (4) set in a rectangular grid. They are shaped like rings around the rollers. There are four per palette, one at each corner. The rollers are mounted directly on baseplates attached to the palettes. The palettes are transported by linear motors (29) and they are guided simultaneously in both directions without hitting each other. A lift is used to change the vertical level within the warehouse.

IPC 1-7

**B65G 1/04**

IPC 8 full level

**B22D 1/00** (2006.01); **B65G 1/04** (2006.01); **E04H 6/24** (2006.01); **E04H 6/28** (2006.01)

CPC (source: EP KR)

**B22D 1/005** (2013.01 - EP); **B65G 1/0478** (2013.01 - EP KR); **E04H 6/24** (2013.01 - EP KR); **E04H 6/282** (2013.01 - EP KR); **B65G 2201/0294** (2013.01 - EP KR)

Citation (search report)

- [X] EP 0514241 A1 19921119 - PRODEL JACQUES [FR]
- [X] CH 436380 A 19670531 - BORGS FABRIKS AB [SE]
- [A] DE 2712494 A1 19771006 - GIBBS JAMES WHITMAN
- [A] FR 2651823 A1 19910315 - JAMAL VICTOR, et al
- [A] DE 4028590 A1 19920312 - WOEHR OTTO GMBH [DE]
- [A] DE 4119998 A1 19921224 - TORLACH THOMAS DIPL ING [DE]
- [A] DE 8912922 U1 19900208

Cited by

US7123988B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

**EP 0671348 A2 19950913**; **EP 0671348 A3 19970129**; **EP 0671348 B1 19990721**; AT E182312 T1 19990815; DE 4407999 A1 19950914; DE 4407999 C2 19970116; DE 59506405 D1 19990826; ES 2135683 T3 19991101; JP H0812019 A 19960116; KR 950032954 A 19951222

DOCDB simple family (application)

**EP 95710004 A 19950207**; AT 95710004 T 19950207; DE 4407999 A 19940310; DE 59506405 T 19950207; ES 95710004 T 19950207; JP 5003195 A 19950309; KR 19950004416 A 19950304